

- a. All students were approached (no prior form offered; frank)
 - b. All students (n=2) had the book of sound data as the second subject
 - c. The first study class, in the book of openly following the principle
 - d. Which was not intended facilities at the 1983 edition because the
 - e. youth characteristics of migrants' sightings discussed in the

Hollister, California (1 August 1952); Hutchinson, Kansas (2 July 1952);
Brenton Falls, Montana (15 August 1950); Rock, Montana (3 September
1950); Whitefish, Montana, D. G. Moore (30 July 1952); and Sheep's Head, Oregon
Region (5 August 1952); Red River, Michigan (29 July 1952); and
Pawcatuck Valley, Maine (23 October 1952).

After review and discussion of these cases (and about 35 others, as noted earlier), the Panel concluded that reasonable explanations could be suggested for most sightings and fly destruction and collection so could be created (given additional data) that other cases might be explained in a similar manner². The Panel pointed out that because of the frequency of some sightings (e.g., 2-3 seconds) and the variability of the witness(es) expressing themselves clearly (see note 1), the conclusive explanation would not be expected for every case reported. Furthermore, it was considered that, normally, it would be a great waste of effort to try to solve most of the sightings, unless such action would further a training and educational program (see 1 above). The writings of Charles Fort were referenced to show

After all sightings were aggregated (as have been done), analysis
of the data (and) by the basis of count data in the great majority
of the first cases also, in the lack of object following the particular
time period showed limited facilities of the AEC's operation committee.
Among the characteristics of significant sightings discussed in detail
are the following:

Washington, D.C. (1 August 1952); Princeton, New Jersey (2 July 1952);
West Falls, Montana (15 August 1952); Rock, Montana (1 September
1952); Washington, D.C. area (20 July 1952); and Elmira, New York
(5 August 1952); Keweenaw River, Michigan (29 July 1952); and
Spartus Mine, Maine (16 October 1952).

After review and description of these cases (and about 75 others
in this section), the Panel concluded that reasonable explanations
could be suggested for most sightings and "by deduction and inference"
that it could be inferred (given additional data) that other cases
might be explained in a similar manner. The Panel pointed out that
because of the frequency of some sightings (e.g., 2-3 seconds) and the
similarity of the witnesses' impressions clearly (secondly)
that conclusive explanatory could not be expected for every case
reported. Furthermore, it was considered that, normally, it would
be a great waste of effort to try to solve most of the sightings,
and such action would be like a training and educational program
(firstly). The findings of Captain Foy were referenced to show



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the "strange things in the sky" had been recorded for hundreds of years. It appeared obvious that there was no single explanation for a majority of the strange ones. The presence of radar and aircraft would specialize on the Radar proof of value at once in their common recognition of phenomena related to their fields. It was apparent that specialists in such additional fields as psychology, meteorology, aerodynamics, entomology and military air operations would extend the ability of the Radar to recognize many more categories of mysterious phenomena.

CHART OF POWER

The Board concluded unanimously that there was no evidence of a direct threat to national security in the objects sighted. Instances of "Red Knights" were cited. These were unexplained phenomena sighted by aircraft pilots during World War II in both European and Far East theaters of operation wherein "Walls of light" would fly near or with the aircraft and maneuver rapidly. They were believed to be electrostatic (similar to St. Elmo's fire) or electro-magnetic phenomena or possibly light reflections from ice crystals in the air, but their exact cause or nature was never defined. Both Robertson and Alvarez had been concerned in the investigation of these phenomena, but David T. Griggs (Professor of Geophysics at the University of California at Los Angeles) is believed to have been the most knowledgeable person on this subject. If the term "flying saucers" had been popular in 1943 - 1945, these objects would

should be introduced. In his interviewing that an at least two
can consistently treat the objects sighted too categorised by Roberts and
Hawkins as possibly "Star Fighters", to date unexplained but not
dangerous, they were not happy thus to describe the sightings by
calling them names. It was their feeling that these pictures can
not reveal the extent of present knowledge of physical celestial bodies.
PROBLEMS AND SUGGESTIONS

It was the Panel's opinion that one of the Air Force's successes
over U.S.A.F.C. notwithstanding Mr. Defense Command and the C.I.A.
public (which) was probably caused by public pressure. The result
being, is that the Air Force has instituted a fine channel for
receiving reports of nearly anything anyone sees in the sky and
claims to understand. This has been particularly encouraged in papers
and articles on this and other subjects, such as space travel and
celestial navigation. The result is the mass receipt of low-grade reports
which tend to overload channels of communication with material which
is relevant to hostile objects that might some day appear. The Panel
agreed generally that this mass of poor-quality reports containing
little, if any, scientific value was of no value. Quite the opposite,
it was possibly dangerous in having a military service foster public
alarm in "nocturnal hovering lights". The implication being,
since the interested agency was military, that these objects were
a threat to potential direct threats to national security. Accord-
ingly, the need for declassification made itself apparent. Committee
on a possible educational program are enumerated below.

(b) (1), (b) (2), (b) (3)

In the opinion of Mr. Robertson that the "missile" problem is believed to be different in nature from the detection and identification of German V-1 and V-2 guided missiles prior to their appearance, and in March 1944. In this 1943-1944 intelligence situation (approximately), that the excellent intelligence and by July 1944 there was material evidence of the existence of "missiles" obtained from cracked wireless in Britain. This evidence gave the investigating team a basis upon which to operate. The existence of any "missiles" resulting from unexplained U.P.O. sightings led a British investigation) witness to the MIG problem. The results of this investigation, to date, strongly indicate that no evidence of hostile action or danger exists. Furthermore, the current reporting system would be no little value in the case of detection of enemy attack by COMINT (and aircraft or guided missiles; under such conditions "missiles" would be available almost at once.

Answers of Mr. Robertson, Captain

It was interesting to note that none of the members of the R.A.F. were bold to accept that this earth might be visited by extraterrestrial intelligent beings of some sort, some day. What they did not find was any evidence that related the objects sighted to space travelers. Mr. Pownall, in his presentation, showed how he had eliminated each of the known and probable causes of sightings, leaving him as unscrupulous as the only one remaining in many cases. Pownall's background as an aeronautical engineer and technical intelligence

and the Project Gemini, which took 26 months) could not be
neglected. However, the Panel could not accept any of the cases
at first try because they were very unevaluated reports.
Successful explanations of the sightings were suggested in some
cases and in others the time of sighting was so short as to cause
懷疑 of visual impressions. It was noted by Dr. Coulam and
Clegg, that extraterrestrial artifacts, if they did exist, are no
less than dreams; rather, they are in the scale of natural phenomena
subject to coincidence theory, just as cosmic rays were at the time
of their discovery 20 to 30 years ago. This was an attitude in
which Dr. Robertson did not concur, as he felt that such artifacts
would be of significant and great concern not only to the U. S. Air Force
but all countries. (Nothing like a common threat to unite peoples!)
Dr. Clegg noted that present astronomical knowledge of the solar
system makes the existence of intelligent beings (as we know them)
elsewhere than on the earth extremely unlikely, and the
concentration of their attention by any controllable means confined
to one hemisphere of the earth quite preposterous.

UFO AND FILM SURVEY

This case was considered significant because of the excellent
documentary evidence in the form of Kestrelco motion picture films
(about 1600 frames). The Panel studied these films, the case history,
AFIST interpretation, and received a briefing by representatives of
the AF Photo Interpretation Laboratory on their analysis of the
films. This term had expanded (as Air Force request) exponentially

(b) After a time of professional and unpreconditioned time in the interpretation of graphic plots of individual frames of the film, showed a rapid and definitive motion of objects and variation in their light intensity. It was the opinion of the P.M.L. representatives that the objects sighted were not birds, balloons or aircraft, and they withdraw because there was no "hiding" while passing through clouds and vapor, balloons, "cloud waves". Movements, sudden and variation in light intensity of the objects were displayed, and the Panel Members were impressed by the evident calculations, intensity and extent of effort of the P.I.L. team, they could not accept the conclusions reached. Some of the reasons for this were as follows:

1. A semi-spherical object can readily produce a reflection of sunlight without "reflecting" through 60° of arc travel.
2. Although no film was available on the behavior of birds as projectiles from balloons in bright sunlight, the apparent motions, sizes and brightnesses of the objects were considered strongly to suggest birds, particularly after the Panel viewed a short film showing high reflectivity of seagulls in bright sunlight.
3. Full description of the objects sighted as "circles, blackish-grey" in color would be expected in cases of significant reflections of sunlight from convex surfaces where the brilliancy of the reflection would obscure other portions of the objects.

1. In 1960 in the Great Falls case were believed to have probably been different, and the bright lights such reflectors.
2. There was no valid reason for the attempt to isolate the objects in the Sectional sighting to those in the Great Falls sighting day. This may have been due to misinterpretation in Koda perspective. The objects in the Great Falls sighting are strongly suspected of being reflections of aircraft known to have been in the area.
3. The intensity change in the Sectional lights was too great for acceptance of the P.M.C. Hypothesis that the apparent dotted and changing intensity of the lights indicated extremely high speed for small orbital paths.
4. Apparent lack of guidance of investigations by those familiar with U.F.O. reports and explanations.
5. Analysis of light intensity of objects made from duplicate rather than original film. The original film was noted to have a much lighter background (reflecting relative brightness of objects) and the object to appear much more bright.
6. Method of obtaining data of light intensity appeared faulty because of unreliability of equipment and questionable assumptions in taking averages of readings.
7. No data had been obtained on the sensitivity of Kodak film to light of various intensities using the same camera type at the same lens openings.



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... The 110-tonne 100-tonner (which has been early part of
Operation 2100) were not recovered from the piles at the
bridge from which is the end of the 2100.

iii. French believed strongly that the date available on file
regarding the dimensions of the possible identification of certain date
as referred to photographing photographic film was released
from the site under unusual weather conditions, showing that 2100
and 2100B were characterized with extremely erratic photographs and
photographing equipment remaining and kept objects from being exposed to
weather. It was conceivable that the date to such dates would prob-
ably lead to identifiable information of value in an identification or
intelligence program. However, the French reported that the cost in dismantling
the nuclear effect suggested to sell off and keep away one of the
reactors or some separate involved enough chemicals each year (\$3,000,000
each) would not be justified. He felt that there will always be
problems, for which complete data is lacking, that can only be
overcome with adequate time offset and with a long time delay. If
in 2100, the long delay by retaining existing teams to do damage
or installing new teams. In addition, the existing program should
have as a major purpose to think what a popular feeling that could
not be had, no matter how pure the date, had to exploded in detail.
The which should be discussed so the requirement among contractors that
any personnel who to be employed, could be completely and normally fit
is required. In other words, the burden of proof is on the employer
to do his best.

IV. THE SIGHTING PROCESS

... General Moshko was in agreement with other opinions that, although evidence of any Soviet threat from these sightings was mostly negligible, selected targets might well include surrounding areas.

- a. Identification of actual enemy activities by defense personnel
- b. Confirmation of enemy by reporting channels with "factual information" ("notice & signal source" analogy—Barber).
- c. Disposition of units to this location and greatest probability of possible enemy psychological warfare.

Barber also felt concerned about the first two of these problems. He felt they should be left to defense intelligence agencies, and should be studied by experts, possibly under DDO. If U.S.O.'s become fully qualified in a technical sense to the "flying saucer" score, or if reporting channels are saturated with false and poorly documented reports, our capability of detecting hostile activity will be reduced.

Dr. Hugo noted that base competent screening or filtering of reported sightings at or near the source is required, and that this can best be accomplished by an educational program.

V. ANALYSIS OF REPORTED SIGHTINGS

The map prepared by ASOS showing geographic locations of officially reported unconfirmed sightings (1952 only) was examined by the Panel. This map showed clusters in certain strategic areas such as Los Alamos, which might be explained on the basis of 24-hour watchful guard and

Mr. J. A. D. was asked to report on this matter and his conclusions. On the effectivity of this it is felt no significant change in the reliability of scientific satellite US communications traffic there were essentially negligible gains of unanticipated significance for non-communications purposes. Furthermore, there appeared to be no logical relationship to population centers. The Panel could find no ready explanation for these observations. To this effect, however, three or four potential corrections were to be observed. It would be likely that they would be seen first near foreign areas rather than around U. S.

INSTRUMENTATION RELAYING

The Panel was of the opinion that the present AT&T program to place 200 transponding 55 cm. stereo cameras in the heads of various aircraft could, given operators would probably produce little usable data related to U.T.C.C. However, it was recognized that such action would tend to allay public concern in the subject until an educational program had taken effect. It was believed that pre-existing ed consciousness was partly the result of public pressure in July 1962. With the poor results of the year-long Project TAC-100 program of 24-hour instrumentation watch (two frames of 2000 showing nothing distinguishable), a widespread program of sky-watching would not be expected to yield much direct data of value.

There was considerable discussion of a possible "city patrol" by amateur astronomers (Nyquist) and by wide-angle cameras (Pugs). Dr. D. G. and Dr. Robertson pointed out that at present a considerable fraction

20. Dr. Edward L. Goss has been for many years under consideration
as a man qualified for several meteor and comet observing programs as
well as astronomical programs at the various institutions listed below.

With the exception of three observations he largely directed
them at astronomical rather than unidentified objects, no case of any
sort of unclassified object is known to Dr. Goss or Dr. Lynch. Such
a case would most certainly be reported if found on patrol flights.

21. He was cited where an astronomer refused to interrupt his
work in order to photograph an alleged sighting in a different
part of the sky. This led Dr. Lynch to say that, if a program of
tracking could be an adjunct of planned astronomical programs,天文
work would be involved and that the classified astronomical personnel
would photograph sightings of an unidentified object.

The location of some of these programs and their directors are
summarized as follows:

- a. Harvard University, Cambridge, Mass., Mexico (meteor patrol),
McNamee
- b. Yerkes Observatory, University of Chicago and Fort Davis, Texas
(several programs)-Mueller (comets), Kupper (asteroids),
Morgan (wide angle camera).
- c. University of Alaska, Fairbanks (comets)-Eley
- d. McDonald Observatory, Ft. Davis (meteors)-Millman
- e. Lick Observatory, California (sky map)-Minkowski
- f. Mt. Wilson Observatory, California (sky map)-Slater

[REDACTED]

It was agreed by the Panel that no government-sponsored program of additional worldwide city patrol is worthwhile at the present time, and that the encouragement of amateur instruments to undertake such a task would have the desired effect of over-emphasizing "friendly" amateur stories in the public mind. However, the issue of radio frequency control for succeeding amateur radio contests would serve several purposes, including the better understanding of radio interference as well as identification of S.A.R.C.

PROBLEMS OF INTERNAL INTERFERENCE

The characteristic problem of radio operation within the pulse signal (of approximately the same frequency) from station A may be picked up on the screen of station B and there as a high-speed track of series of dots was recognized to have probably caused a number of U.S.C. reports. This problem was undetermined by information received identifying R.C.C. concern for solving this problem of signal identification before service use of very high-speed aircraft or guided missiles (R.D.B.-153). The Committee believed that one answer to this problem was the use of a "scrambled signal" in the receiving circuit. [Dr. Miville] suggested that the problem might be better solved by the use of a "frequency mixer" where the operator receiving "key spot tracks" (in the order of 1000-20,000 m.p.h.) would operate a circuit which would allow slightly his station's pulse frequency ratio. If the signal received on the screen had been caused by mutual interference with another station, the track would now show itself at a different distance.



and the nature of the object, as it would appear at all. Dr. Abbot
fully made a technical conclusion this object and could not make this
a "flying object".

TECHNICAL PROGRAM

The proposed cases were examined: one of Palomar Mountain, California,
in October 1950, when some sky observers were still able for a few seconds
approximately while at 50% of flying objects was observed visually; and two, a
series of observations by the Los Angeles City Meteorite Association from
August 1950 to October 1952, when some very considerable evidence
appeared. Observations and records were available for the 1949, 1950
& 1952. There was able quickly to point out that the recorded date were
indoubtedly due to instrumental effects that would have been recognized
as such by more experienced observers.

The implication that "instrumental effects" were correlated with
unidentified flying objects in these two cases was, therefore, rejected
by the Panel.

TECHNICAL PROGRAM

The Panel's concept of a broad educational program integrating
all of all concerned agencies was that it should have two major
aims: "training and "education".

The training aim would result in proper recognition of usually
non-litured objects (e.g., balloons, aircraft reflections) as well as
natural phenomena (meteors, fireballs, mirages, noctilucent clouds).
Both visual and radar recognition are concerned. There would be many

Details on each education plan collected pursuant to economic and account procedures. Initiative efforts and degree of implementation of department programs would correspond to the categories of entry (e.g., active operations prior to, control tower operations, Ground Observer Corps personnel; and collectors and enlisted men in other categories.) This briefing should result in a marked reduction in reports caused by misidentification and inaccurate conclusions.

The following can would result in reduction in public interest in "flying saucers" which today evokes a strong psychological reaction. This education could be accomplished by mass media such as television, motion pictures, and popular articles. Details of such education would be similar. case histories which had been pending at flight test bases enlarged. As in the case of conjuring tricks, there is much room for identification of the "secret" to facts. Such a program should tend to reduce the current credibility of the public and consequently their susceptibility to clever deceptive propaganda. The Panel noted that the general theme of Russian propaganda based on a subject with so many outcomes possibilities for exploitation might indicate a possible Russian communication policy.

Members of the Panel had various suggestions related to the planning of such an educational program. It was felt strongly that psychologists familiar with mass psychology should advise on the nature and intent of the program. In this connection, Dr. Melville Herskovits (Princeton University) was suggested. Herskovits published "Education from

[REDACTED]

During the study in the psychology of panic, mention about the famous Dr. R. H. Maitles radio broadcast in 1933 and his mass performed education particularly studies in the field of hypnosis. The names of Don Knotts (Comedian of Paragon) and Bob Barker were mentioned as possibly suitable as conservative psychologists. Also, someone familiar with mass communication techniques, perhaps an advertising expert, would be helpful. Doctor Eddy was mentioned as possibly a valuable channel of communication reaching mass audiences at certain levels. Dr. Kuhn suggested the U. S. Navy (NSR) Special Devices Center, San Diego, Calif., as a professionally valuable organization to assist in such an educational project. The training techniques used by this agency for educational purposes during the past are given cited as an example of a similar educational tool. The Sam Randy Co. which aids World War II training films (motion picture and slide strips) was also suggested, as well as Wells Dryden, Inc., indicated experts. Dr. Hynck suggested that the church organizations in the U. S. might be a potential source of educated people able to spread the gospel. It was believed that business offices, high schools, colleges, and television stations would all be pleased to cooperate in the showing of documentary type motion pictures if prepared in an interesting manner. The use of two cases showing "Sister Murphy" and "The Professor" would be useful.

To plan and execute such a program, the Panel believed was no small task. The current investigatory group at AFIC would, of necessity, have to be closely integrated for support with respect to not only the



A small, dark, irregular object, possibly a piece of debris or a small insect, resting on a light-colored surface.

2. The Panel, according to present knowledge, at different times
will have to make conditions of the office.

3. In view of the fact that Agents will require and a substantiation
of their working ability would be necessary in addition, the Panel
will have great MGR's objection, particularly expected, as necessary,
and it would expect, in implementing any action taken as a result of
the recommendations. Experience and records in MGR would be of value
in both the public educational and service training program envisaged.
[In addition at least, two of the opinion that after public gallery
around and the service organisations, such as ABC, had been trained
to do and the time pending completed previous sightings, there would
still be a role for a very modest-sized MGR section to cope with the
problem of items of possible scientific intelligence value. This
section should concentrate on energetically following up (perhaps on
the basis of classified Air Force Scientific Advisory Board members)
on the cases which seemed to indicate the existence of unexplained
casing artifacts. Reports of such artifacts would be expected to
come mainly from Western districts in far closer proximity to the
Rocky Mountains than Butte, Montana.]

3. POSSIBLY APPROACHED GROUPS

The Panel took cognizance of the existence of such groups as the
"National Flying Saucer Investigators" (Los Angeles) and the "Mental
Influence Research Organization" (Unincorporated). It was believed that
such organizations should be watched because of their potentially

R.G. DURANT III

6/6/68

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TELECOMMUNICATIONS

Major General John C. Gandy

ASTRONOMY

Packets, Guided Missiles

Scientific and Technical Schools

Scientific and Technical Schools

Scientific and Technical Schools

PHL 1

Algebra 101
Elementary Math
Calculus 101
Elementary Algebra
Geometry

Algebra 101
Elementary Math
Calculus 101
Elementary Algebra
Geometry

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Geometry

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- 1. Summary/Annotative Indexes of Sightings 1951 ~ 1952 (collected by Project Director).
 - 2. Project and Program Register of Technical Studies and Projects Initiated (with known or likely study of subject).
 - 3. Project Register of Projects ACTIVE (info same for Battelle Memorial Institute's assistance with supporting MTFB).
 - 4. Summary Report of Sightings to Williams Air Force Base, New Mexico.
 - 5. Papers at USAF Research Bureau, Cambridge, Mass., Recommendation on an Electromagnetic Frequency (Project MTFB).
 - 6. Summary of Investigations of U.F.O.s Proposed by Hubbard Air Force Base (Project PUFAS).
 - 7. An Unusual Name and Sightings at Trentham, Wash., 2 July 1951 (Great Falls, Montana, August 1950).
 - 8. Summary Name and Dates of sightings of various categories (Investigation, Clothing Objects, Papers, etc.).
 - 9. Index of names - First 60 Miles of JEWELLERY, prepared at AFIB.
 - 10. Chart Showing Plot of Geographical Location of Unexplained Sightings in the United States during 1952.
 - 11. Chart Showing Balloon Landing Areas in the United States.
 - 12. An Analysis Selected for all Unidentified Flight Paths and Relation to Reported Sightings.
 - 13. Chart Showing Frequency of Reports of Sightings, 1946 ~ 1952.
 - 14. Chart Showing Categories of Applications of Sightings.
 - 15. Drawings Representations of Polyethylene Film Balloons in Bright Light (from AFIB, 1952).

TAB 2

15. Recent pictures of corporal in flight uniform showing high reflectivity.
16. Copy of Major Report of the U.S. Air Force in U.S. Eighty.
17. Sample of Standard FORM Reporting Name and Grade of Personnel in Army and Navy Orders Relating to subject.
18. Sample Polyethylene Plastic Baggage (5 inches square).
19. Publications on Radar Coverage, JNIP 101 (Visual illustrating unusual operating characteristics of Service radar).
20. Miscellaneous official letters and foreign intelligence reports dealing with subject.
21. Copies of popular publications dealing with subject (articles in periodicals, newspaper clippings and books).